

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| S1    | 1    | ("20080284043").PN.  | US-PGPUB;<br>USPAT; USOCR   | OR               | OFF     | 2009/03/18<br>10:40 |
| S2    | 56   | (Hagen, Robert-Christian).in.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/03/18<br>10:40 |
| S3    | 144  | (Pohl, Jens).in. NOT S2  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/03/18<br>10:41 |
| S4    | 11   | ("20010054758"  <br>"20010054770"  <br>"20030038374"  <br>"20030047798"  <br>"20040124539"  <br>"20040145039"  <br>"20050046006"   "6828665"  <br>"6861288"   "7049692"  <br>"7102892").PN. OR ("7456495").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR   | ADJ              | ON      | 2009/03/18<br>10:58 |
| S5    | 114  | ("20020088355"  <br>"20030122240"  <br>"20030137808"  <br>"20030168725"  <br>"20030201526"  <br>"20040094751"   "3239719"  <br>"3665256"   "3737986"  <br>"3777221"   "4038488"  <br>"4245877"   "4288841"  <br>"4322778"   "4398235"  <br>"4437235"   "4549200"  <br>"4616655"   "4632293"  <br>"4763188"   "4802062"  <br>"4982265"   "4998886"  <br>"5061990"   "5107586"  <br>"5128831"   "5130894"  <br>"5191404"   "5191405"  <br>"5239198"   "5239447"  <br>"5241456"   "5259767"  <br>"5262594"   "5285352"  <br>"5299094"   "5311401"  <br>"5311407"   "5313366"  <br>"5316787"   "5377077"  <br>"5394300"   "5400904"  <br>"5412538"   "5418688" | US-PGPUB;<br>USPAT; USOCR   | ADJ              | ON      | 2009/03/18<br>10:59 |

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|    |    | "5450283"   "5479318"  <br>"5492223"   "5498906"  <br>"5507403"   "5514907"  <br>"5570274"   "5579207"  <br>"5656856"   "5677569"  <br>"5701233"   "5739581"  <br>"5742097"   "5744827"  <br>"5744862"   "5754408"  <br>"5757079"   "5783870"  <br>"5798014"   "5810609"  <br>"5869353"   "5869356"  <br>"5910885"   "5982633"  <br>"6014316"   "6028352"  <br>"6038132"   "6049972"  <br>"6072122"   "6081429"  <br>"6084293"   "6084780"  <br>"6093249"   "6101100"  <br>"6107683"   "6160718"  <br>"6214640"   "6222739"  <br>"6262488"   "6291259"  <br>"6313522"   "6313524"  <br>"6320757"   "6388335"  <br>"6404043"   "6428650"  <br>"6445591"   "6462284"  <br>"6469376"   "6472735"  <br>"6515237"   "6559539"  <br>"6566746"   "6566760"  <br>"6614110"   "6618267"  <br>"6627984"   "6628527"  <br>"6665194"   "6683377"  <br>"6777798"   "6787916"  <br>"6828666"   "6924556"  <br>"6991964"   "RE36916").PN. OR<br>("7102892").URPN. |                           |     |    |                     |
| S6 | 30 | ("5291061"   "6278613"  <br>"6340846"   "6441483"  <br>"6472758"   "6492726"  <br>"6563205"   "6577013"  <br>"6603072"   "6730543").PN. OR<br>("6861288").URPN.  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2009/03/18<br>11:15 |
| S7 | 7  | US-6313522-\$.DID. OR US-<br>6437433-\$.DID. OR US-<br>6407448-\$.DID. OR US-<br>20010028104-\$.DID. OR US-<br>20020163077-\$.DID. OR US-<br>20030020154-\$.DID. OR US-<br>20030030143-\$.DID.   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2009/03/18<br>11:57 |

|     |      |   |                           |     |     |                     |
|-----|------|---|---------------------------|-----|-----|---------------------|
| S8  | 28   | ("5045921"   "5477611"  <br>"5625221"   "5776796"  <br>"5783870"   "5793118"  <br>"5930598"   "5933709"  <br>"5950072"   "5977640"  <br>"5994166"   "6020633"  <br>"6020637"   "6025258"  <br>"6028365"   "6051890"  <br>"6054337"   "6072233"  <br>"6093584"   "6117705"  <br>"6172423"   "6180881"  <br>"6313522").PN. OR ("6407448").<br>URPN. | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2009/03/18<br>12:00 |
| S10 | 89   | (257/E23.041).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR  | OFF | 2009/03/18<br>12:45 |
| S19 | 288  | (257/E23.049).ccls. NOT S10   | US-PGPUB;<br>USPAT; USOCR | OR  | ON  | 2009/03/18<br>13:31 |
| S20 | 294  | (257/E23.042).ccls. NOT S10<br>NOT S19  | US-PGPUB;<br>USPAT; USOCR | OR  | ON  | 2009/03/18<br>14:07 |
| S21 | 406  | (257/E23.047).ccls. NOT S10<br>NOT S19 NOT S20  | US-PGPUB;<br>USPAT; USOCR | OR  | ON  | 2009/03/18<br>14:20 |
| S22 | 509  | (257/E23.187).ccls. NOT S10<br>NOT S19 NOT S20 NOT S21  | US-PGPUB;<br>USPAT; USOCR | OR  | ON  | 2009/03/18<br>14:20 |
| S23 | 708  | (257/E23.055).ccls. NOT S10<br>NOT S19 NOT S20 NOT S21<br>NOT S22   | US-PGPUB;<br>USPAT; USOCR | OR  | ON  | 2009/03/18<br>14:21 |
| S24 | 834  | (257/E23.043).ccls. NOT S10<br>NOT S19 NOT S20 NOT S21<br>NOT S22 NOT S23   | US-PGPUB;<br>USPAT; USOCR | OR  | ON  | 2009/03/18<br>14:21 |
| S25 | 1046 | (257/E23.01).ccls. NOT S10<br>NOT S19 NOT S20 NOT S21<br>NOT S22 NOT S23 NOT S24  | US-PGPUB;<br>USPAT; USOCR | OR  | ON  | 2009/03/18<br>14:21 |
| S26 | 1298 | (257/E23.065).ccls. NOT S10<br>NOT S19 NOT S20 NOT S21<br>NOT S22 NOT S23 NOT S24<br>NOT S25  | US-PGPUB;<br>USPAT; USOCR | OR  | ON  | 2009/03/18<br>14:22 |
| S28 | 952  | (257/E25.013).ccls. AND<br>(deformable or flexible) NOT<br>S10 NOT S19 NOT S20 NOT<br>S21 NOT S22 NOT S23 NOT<br>S24 NOT S25 NOT S26  | US-PGPUB;<br>USPAT; USOCR | OR  | ON  | 2009/03/18<br>14:25 |
| S30 | 28   | ("5045921"   "5477611"  <br>"5625221"   "5776796"  <br>"5783870"   "5793118"  <br>"5930598"   "5933709"  <br>"5950072"   "5977640"  <br>"5994166"   "6020633"  <br>"6020637"   "6025258"  <br>"6028365"   "6051890"  <br>"6054337"   "6072233"  <br>"6093584"   "6117705"  <br>"6172423"   "6180881"  <br>"6313522").PN. OR ("6407448").<br>URPN. | US-PGPUB;<br>USPAT; USOCR | ADJ | ON  | 2009/03/18<br>15:19 |

|     |     |  |   |     |    |                     |
|-----|-----|--|---|-----|----|---------------------|
| S37 | 178 | (438/106).ccls. and flexible and ball and contact pad  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/03/18<br>16:21 |
| S38 | 5   | (438/106).ccls. and interconnection film   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/03/18<br>16:48 |
| S39 | 5   | (257/E25.013).ccls. and interconnection film   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/03/18<br>16:51 |
| S49 | 321 | (flex-circuit or flex circuit or flexible circuit) and (ball grid array or BGA) and (stack or stackable or stacking) and plastic   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/03/18<br>16:58 |
| S51 | 114 | TAB (attachment or bonding) and (flex-circuit or flex circuit or flexible circuit) and (ball grid array or BGA)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/03/18<br>17:17 |
| S52 | 352 | TAB and gang bonding   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/03/18<br>17:23 |
| S53 | 4   | ("2003/0042591").URPN.   | USPAT   | ADJ | ON | 2009/03/19<br>10:29 |
| S54 | 172 | (GOLLER).in.   | USPAT   | ADJ | ON | 2009/03/19<br>10:30 |
| S55 | 13  | ("20040014317"   "5496775"   "5834340"   "5892288"   "5892299"   "5923954"   "5977641"   "5989982"   "5990546"   "6031284"   "6054772"   "6476503"   "6607970").PN. OR ("7276783").URPN. | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2009/03/19<br>10:33 |
| S58 | 155 | (GOLLER).in. and (semiconductor or chip or substrate)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/03/19<br>10:40 |

|     |      |  |   |     |     |                     |
|-----|------|--|---|-----|-----|---------------------|
| S59 | 10   | (CHUN, DONG SEOK).in.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/03/19<br>10:51 |
| S62 | 55   | (OFNER, GERALD).in.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/03/19<br>10:54 |
| S64 | 95   | rewiring near2 board   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/03/23<br>10:34 |
| S67 | 1192 | printed circuit board same<br>plastic with resin   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/03/23<br>11:20 |
| S68 | 685  | (printed circuit board or PCB)<br>with plastic with resin  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/03/23<br>11:20 |
| S70 | 1    | ("20040232543").PN.  | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/03/23<br>11:30 |
| S71 | 4    | ((("6300679") or ("7193310") or<br>("7081373") or<br>("20040099940")).PN.  | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/03/23<br>14:18 |
| S72 | 412  | ("20010001085"  <br>"20010006252"  <br>"20010013423"  <br>"20010015487"  <br>"20010026009"  <br>"20010028588"  <br>"20010035572"  <br>"20010040793"  <br>"20010052637"  <br>"20020001216"  <br>"20020006032"  <br>"20020030995"  <br>"20020048849"  <br>"20020076919"  <br>"20020094603"  <br>"20020101261"  <br>"20020139577"  <br>"20020164838"  <br>"20020180022"  <br>"20020185731"  <br>"20020196612" | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/03/23<br>14:22 |

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| "20030081387" |           |
| "20030081392" |           |
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| "4712129"     | "4722691" |
| "4724611"     | "4727513" |
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| "4763188"     | "4821007" |

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| "4862249").PN. OR ("4884237" |           |
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| "5012323"                    | "5014115" |
| "5014161"                    | "5016138" |
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| "5053853"                    | "5057903" |
| "5064762"                    | "5065277" |
| "5068708"                    | "5081067" |
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| "5219794"                    | "5222014" |
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| "5475920"                    | "5477082" |
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| "5491612"                    | "5493476" |
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| "5566051"                    | "5572065" |
| "5588205"                    | "5592364" |
| "5594275"                    | "5600178" |
| "5612570"                    | "5631193" |
| "5642055"                    | "5644161" |
| "5646446"                    | "5654877" |

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| "5708297"  | "5714802"  |
| "5729894"  | "5731633"  |
| "5744827"  | "5744862"  |
| "5751553"  | "5754409") |
| PN. OR     |            |
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| "6021048"  | "6025642"  |
| "6028352"  | "6028365"  |
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| "6078515"  | "6084293"  |
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| "6121676"  | "6157541"  |
| "6165817"  | "6172874"  |
| "6178093"  | "6180881"  |
| "6187652"  | "6205654"  |
| "6208521"  | "6208546"  |
| "6214641"  | "6215181"  |
| "6215687"  | "6218731"  |
| "6222737"  | "6222739"  |
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| "6233650"  | "6234820"  |
| "6262476"  | "6262895"  |
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| "6376769"  | "6392162"  |
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| "6444490"  | "6444921"  |



|     |    |   |   |     |     |                     |
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|     |    | "6446158"   "6449159"  <br>"6452826"   "6462412"  <br>"6462423"   "6465877"  <br>"6465893"   "6472735"  <br>"6473308"   "6486544"  <br>"6489178"   "6489687"  <br>"6492718"   "6502161"  <br>"6509639"   "6514793"  <br>"6528870"   "6531772"  <br>"6532162").PN. OR ("6544815"<br>  "6549413"   "6552910"  <br>"6552948"   "6560117"  <br>"6566746"   "6572387"  <br>"6573593"   "6576992"  <br>"6588095"   "6590282"  <br>"6600222"   "6614664"  <br>"6620651"   "6627984"  <br>"6629855"   "6646936"  <br>"6657134"   "6660561"  <br>"6661092"   "6677670"  <br>"6683377"   "6690584"  <br>"6699730"   "6707684"  <br>"6709893"   "6720652"  <br>"6721185"   "6721226"  <br>"6724076"   "6744656"  <br>"6751113"   "6756661"  <br>"6760220"   "6768660"  <br>"6781240"   "6803651"  <br>"6812567"   "6833981"  <br>"6833984"   "6839266"  <br>"6841868"   "6849949"  <br>"6850414"   "6873534"  <br>"6876074"   "6878571"  <br>"6884653"   "6891729"  <br>"6908792"   "6914324"  <br>"6919626"   "7081373"  <br>"RE36916").PN. OR<br>("7193310").URPN. |   |     |     |                     |
| S73 | 94 | ("3427715"   "4922059"  <br>"5148265"   "5148266"  <br>"5229916"   "5394303").PN. OR<br>("5805422").URPN.   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/03/23<br>14:36 |
| S74 | 3  | flip chip and supporting plate<br>and flexible film   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/03/25<br>09:33 |
| S75 | 94 | flip chip and supporting plate  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/03/25<br>09:36 |
| S76 | 1  | ("20030111736").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/03/25<br>09:44 |

|     |     |  |  |     |     |                  |
|-----|-----|--|--|-----|-----|------------------|
| S79 | 31  | flexible substrate same (supporting plate or stiffener) and BGA and (@AD< "20050223" or @RLAD< "20050223")   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2009/03/25 09:58 |
| S80 | 129 | flexible substrate same (supporting plate or stiffener) and (@AD< "20050223" or @RLAD< "20050223") NOT S79   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2009/03/25 10:24 |
| S81 | 1   | ("5,877,043").PN.  | US-PGPUB; USPAT; USOCR                                   | OR  | OFF | 2009/03/25 10:31 |
| S82 | 1   | ("20030134450").PN.  | US-PGPUB; USPAT; USOCR                                   | OR  | OFF | 2009/03/25 12:35 |
| S84 | 115 | (flex or flexible) with attached with (supporting plate or stiffener)and (@AD< "20050223" or @RLAD< "20050223") and BGA  | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON  | 2009/03/25 14:26 |
| S85 | 1   | ("20020180061").PN.  | US-PGPUB; USPAT; USOCR                                   | OR  | OFF | 2009/03/25 14:56 |
| S86 | 10  | ("20020089066"   "20020121705"   "5438224"   "5904497"   "6340846"   "6437449"   "6441483"   "6577013"   "6603072").PN. OR ("7309913").URPN.   | US-PGPUB; USPAT; USOCR                                   | ADJ | ON  | 2009/12/03 17:04 |
| S87 | 152 | ("3388301"   "3577037"   "4700276"   "4700473"   "4792532"   "4819041"   "4862322"   "5198963"   "5331235").PN. OR ("5438224").URPN.   | US-PGPUB; USPAT; USOCR                                   | ADJ | ON  | 2009/12/03 17:06 |
| S88 | 412 | ("20010001085"   "20010006252"   "20010013423"   "20010015487"   "20010026009"   "20010028588"   "20010035572"   "20010040793"   "20010052637"   "20020001216"   "20020006032"   "20020030995"   "20020048849"   "20020076919"   "20020094603"   "20020101261"   "20020139577"   "20020164838"   "20020180022" | US-PGPUB; USPAT; USOCR                                   | ADJ | ON  | 2009/12/03 17:06 |

|               |           |
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| "20020185731" |           |
| "20020196612" |           |
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| "4406508"     | "4429349" |
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| "5219794"                    | "5222014" |
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| "5229917"                    | "5239198" |
| "5240588"                    | "5241454" |
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| "5514907"                    | "5523619" |
| "5523695"                    | "5541812" |
| "5543664"                    | "5561591" |
| "5566051"                    | "5572065" |
| "5588205"                    | "5592364" |
| "5594275"                    | "5600178" |
| "5612570"                    | "5631193" |

|            |            |
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| "5751553"  | "5754409") |
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| ("5763296" | "5764497"  |
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| "6178093"  | "6180881"  |
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| "6426549"  | "6426560"  |

|     |      |   |                           |     |    |                     |
|-----|------|---|---------------------------|-----|----|---------------------|
|     |      | "6428360"   "6433418"  <br>"6444490"   "6444921"  <br>"6446158"   "6449159"  <br>"6452826"   "6462412"  <br>"6462423"   "6465877"  <br>"6465893"   "6472735"  <br>"6473308"   "6486544"  <br>"6489178"   "6489687"  <br>"6492718"   "6502161"  <br>"6509639"   "6514793"  <br>"6528870"   "6531772"  <br>"6532162").PN. OR ("6544815"<br>  "6549413"   "6552910"  <br>"6552948"   "6560117"  <br>"6566746"   "6572387"  <br>"6573593"   "6576992"  <br>"6588095"   "6590282"  <br>"6600222"   "6614664"  <br>"6620651"   "6627984"  <br>"6629855"   "6646936"  <br>"6657134"   "6660561"  <br>"6661092"   "6677670"  <br>"6683377"   "6690584"  <br>"6699730"   "6707684"  <br>"6709893"   "6720652"  <br>"6721185"   "6721226"  <br>"6724076"   "6744656"  <br>"6751113"   "6756661"  <br>"6760220"   "6768660"  <br>"6781240"   "6803651"  <br>"6812567"   "6833981"  <br>"6833984"   "6839266"  <br>"6841868"   "6849949"  <br>"6850414"   "6873534"  <br>"6876074"   "6878571"  <br>"6884653"   "6891729"  <br>"6908792"   "6914324"  <br>"6919626"   "7081373"  <br>"RE36916").PN. OR<br>("7193310").URPN. |                           |     |    |                     |
| S89 | 9    | ("4437235"   "5290971"  <br>"5438224"   "5977626"  <br>"6014316"   "6084780"  <br>"6487078"   "6528353").PN. OR<br>("7006360").URPN.  | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2009/12/03<br>17:23 |
| S90 | 9    | ("5864177"   "6072243"  <br>"6307256"   "6414391"  <br>"6555902"   "6593662").PN. OR<br>("6781849").URPN.   | US-PGPUB;<br>USPAT; USOCR | ADJ | ON | 2009/12/03<br>17:51 |
| S91 | 2939 | (257/E25.013).ccls. NOT<br>(deformable or flexible) NOT<br>(257/E23.041,E23.042,E23.047,<br>E23.187,E23.055,E23.043,<br>E23.01,E23.065,E23.013).CCLS.   | US-PGPUB;<br>USPAT; USOCR | OR  | ON | 2009/12/03<br>17:55 |

|     |     |   |   |     |    |                     |
|-----|-----|---|---|-----|----|---------------------|
| S92 | 17  | ("20030042602"  <br>"20030080438"  <br>"20030224553"  <br>"20040021211"  <br>"20040029411"  <br>"20060043562"  <br>"20060195024"  <br>"20070025079"  <br>"20070205479"  <br>"20080017971"   "3596228"  <br>"5629838"   "6559531"  <br>"6728113"   "6916719"  <br>"6930494"   "7064566").PN. OR<br>("7397136").URPN.   | US-PGPUB;<br>USPAT; USOCR                       | ADJ | ON | 2009/12/03<br>18:46 |
| S93 | 540 | (257/E25.013).ccls. NOT<br>(deformable or flexible) NOT<br>(257/E23.041,E23.042,E23.047,<br>E23.187,E23.055,E23.043,<br>E23.01,E23.065,E23.013).CCLS.<br>and (@PD<"20010925")   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO | OR  | ON | 2009/12/03<br>19:01 |
| S94 | 45  | ("4246595"   "5040052"  <br>"5107325"   "5148265"  <br>"5148266"   "5191404"  <br>"5258330"   "5272664"  <br>"5346861"   "5347159"  <br>"5398863"   "5409865"  <br>"5448114"   "5489749"  <br>"5602059"   "5648682"  <br>"5663106"   "5668405"  <br>"5679977"   "5682061"  <br>"5685885"   "5686757"  <br>"5706174"   "5757078"  <br>"5760465"   "5763939"  <br>"5776796"   "5777387"  <br>"5777391"   "5789820"  <br>"5801446"   "5834339"  <br>"5863970"   "5895965"  <br>"5990545"   "6078097"  <br>"6107678"   "6114192").PN. OR<br>("6670215").URPN. | US-PGPUB;<br>USPAT; USOCR                       | ADJ | ON | 2009/12/03<br>19:20 |
| S95 | 138 | ("4721995"   "4783594"  <br>"5072283"   "5220198"  <br>"5285107"   "5332921"  <br>"5347159"   "5363275"  <br>"5382829"   "5397916"  <br>"5408172"   "5448511"  <br>"5534727"   "5567657"  <br>"5646446"   "5659198"  <br>"5661086"   "5684677"  <br>"5708297"   "5763939"  <br>"5767570"   "5776797"  <br>"5789815"   "5805422"  <br>"5831627"   "5886876"  <br>"5925930"   "5980270"  <br>"6002168"   "6002590"  <br>"6014316").PN. OR ("6300679").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR                       | ADJ | ON | 2009/12/03<br>19:25 |

|      |      |   |                                   |     |    |                     |
|------|------|---|-----------------------------------|-----|----|---------------------|
| S96  | 27   | ("2261015"   "3382564"  <br>"3576969"   "3650454"  <br>"3699640"   "3700156"  <br>"3731867"   "3883945"  <br>"3990863"   "4295596"  <br>"4528746").PN. OR ("4835847").<br>URPN. | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>12:28 |
| S97  | 1869 | BGA and matrix and printed<br>circuit   | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:17 |
| S98  | 22   | BGA and matrix and printed<br>circuit and rewiring  | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:18 |
| S99  | 28   | BGA and printed circuit and<br>rewiring NOT S98 and<br>(@AD< "20040302")  | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:20 |
| S100 | 26   | ball and printed circuit and<br>rewiring and flip chip NOT S98<br>NOT S99 and<br>(@AD< "20040302")  | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:30 |
| S101 | 44   | ball and rewiring and flip chip<br>NOT S98 NOT S99 NOT S100<br>and (@AD< "20040302")  | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:38 |
| S102 | 0    | DE "102" "50" "541.1"   | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:48 |
| S103 | 0    | DE "10250541.1"   | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:48 |
| S104 | 0    | "DE10250541.1"  | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:48 |
| S105 | 0    | "DE10250541"  | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:48 |
| S106 | 1    | "20060088954"   | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:48 |
| S107 | 1    | "20060088954"   | DERWENT                           | ADJ | ON | 2009/12/04<br>13:52 |
| S108 | 0    | ball and lower rewiring and<br>upper rewiring and flip chip<br>NOT S98 NOT S99 NOT S100<br>and (@AD< "20030302")  | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:54 |
| S109 | 0    | ball and lower rewiring and<br>upper rewiring and<br>(@AD< "20030302")  | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:54 |
| S110 | 0    | lower rewiring and upper<br>rewiring and<br>(@AD< "20030302")   | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:54 |
| S111 | 16   | lower with rewiring and upper<br>with rewiring and<br>(@AD< "20030302")   | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:54 |
| S112 | 214  | (Bauer, Michael)  | US-PGPUB;<br>USPAT; USOCR         | ADJ | ON | 2009/12/04<br>13:55 |
| S113 | 1    | US-20020085364-\$.DID.  | US-PGPUB;<br>USPAT;<br>USOCR; JPO | ADJ | ON | 2009/12/04<br>14:07 |



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|------|----|---|---|-----|-----|---------------------|
| S114 | 2  | US-6157080-\$.DID. OR US-20040130024-\$.DID.  | US-PGPUB;<br>USPAT;<br>USOCR; JPO                                       | ADJ | ON  | 2009/12/04<br>14:09 |
| S115 | 98 | ("5008733"   "5210938"  <br>"5385869"   "5640052"  <br>"5697148"   "5844320"  <br>"5889326").PN. OR ("6157080").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/12/04<br>14:13 |
| S116 | 5  | ("6157080"   "6353263"  <br>"6777796"   "6781221").PN. OR<br>("7125745").URPN.  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/12/04<br>14:15 |
| S117 | 5  | ("6157080"   "6353263"  <br>"6777796"   "6781221").PN. OR<br>("7125745").URPN.  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/12/04<br>14:29 |
| S118 | 4  | TAB thermal compression   | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/12/04<br>14:55 |
| S119 | 60 | TAB with thermal compression  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/12/04<br>14:55 |
| S120 | 1  | ("6255723").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/12/04<br>15:06 |
| S121 | 1  | ("5,489,749").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/12/04<br>15:08 |
| S122 | 20 | ("5001546"   "5384204"  <br>"5489749"   "5491302"  <br>"5518964"   "5540378"  <br>"5629239"   "5684329"  <br>"5801436"   "5821609"  <br>"5830782"   "5859472"  <br>"5880520"   "5914532"  <br>"5958607"   "5994222"  <br>"5994767"   "6034422").PN. OR<br>("6255723").URPN. | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/12/04<br>15:08 |
| S123 | 1  | ("6329607").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/12/04<br>15:11 |
| S124 | 1  | interconnection film with<br>conductor tracks   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:13 |
| S125 | 43 | interconnection film with<br>((conductor tracks) or wiring)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:13 |
| S126 | 1  | ("5453913").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/12/04<br>15:16 |

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|------|------|--|---|-----|-----|---------------------|
| S127 | 59   | interconnection film with (multi layered or multilayer or multilayered or multi layer)               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:18 |
| S128 | 1    | flexible with interconnection film with (multi layered or multilayer or multilayered or multi layer) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:19 |
| S129 | 4138 | flexible with film with (multi layered or multilayer or multilayered or multi layer)                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:20 |
| S130 | 496  | flexible with film with (multi layered or multilayer or multilayered or multi layer) and stacked     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:20 |
| S131 | 55   | TAB tape with (multi layered or multilayer or multilayered or multi layer) and stacked               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:20 |
| S132 | 212  | TAB tape near3 (multi layered or multilayer or multilayered or multi layer)                          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:21 |
| S133 | 1    | ("6423571").PN.  | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/12/04<br>15:27 |
| S134 | 47   | TAB tape near3 ((three or "3") (layer or layered))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:33 |
| S135 | 2    | TAB tape near3 ((four or "4") (layer or layered))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:35 |

|      |      |  |   |     |     |                     |
|------|------|--|---|-----|-----|---------------------|
| S136 | 0    | TAB tape near3 (first metal with second metal)       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:37 |
| S137 | 5    | TAB tape with (first metal with second metal)        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:37 |
| S138 | 37   | TAB tape with (ground plane)                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:43 |
| S139 | 4    | TAB tape with (impedance matched)                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:44 |
| S140 | 19   | "5681777"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>15:45 |
| S141 | 1    | ("4842662").PN.                                      | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/12/04<br>15:55 |
| S142 | 3112 | bump with underfill                                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>17:56 |
| S143 | 18   | bump with underfill with plastic                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>17:56 |
| S144 | 103  | bump and underfill with plastic and (@AD<"20040302") | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/04<br>18:00 |
| S145 | 1    | ("6667191").PN.                                      | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/12/04<br>18:02 |

|      |      |  |   |     |    |                     |
|------|------|--|---|-----|----|---------------------|
| S146 | 16   | ("20030150595"   "5330701"   "5523049"   "5656370"   "5726079"   "6069023"   "6392290"   "6429530"   "6441475"   "6489557"   "6498387"   "6518089"   "6570259"   "6583513"   "6800948").PN. OR ("7224048").URPN. | US-PGPUB;<br>USPAT; USOCR                       | ADJ | ON | 2009/12/04<br>18:08 |
| S147 | 2370 | ((361/790,803).ccls. or (438/109).ccls.) NOT (257/E23.041,E23.042,E23.047,E23.187,E23.055,E23.043,E23.01,E23.065,E23.013,E25.013).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO | OR  | ON | 2009/12/04<br>20:48 |
| S148 | 2041 | (257/686,723).ccls. NOT S147 NOT (257/E23.041,E23.042,E23.047,E23.187,E23.055,E23.043,E23.01,E23.065,E23.013,E25.013).CCLS. and (@PY<"2004")   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO | OR  | ON | 2009/12/04<br>20:51 |
| S149 | 1717 | (257/686,723).ccls. NOT S147 NOT S148 NOT (257/E23.041,E23.042,E23.047,E23.187,E23.055,E23.043,E23.01,E23.065,E23.013,E25.013).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO | OR  | ON | 2009/12/04<br>20:52 |

**EAST Search History (Interference)**

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------|------------------|---------|------------------|
| L3    | 361  | ((257/E23.041,E23.042,E23.049,E23.047,E23.187,E23.055,E23.043,E23.01,E23.065,E23.013,E25.013) or (257/686,723) or (438/109) or (361/790,803)).CCLS. | UPAD | OR               | OFF     | 2010/02/16 13:33 |

**2/ 16/ 2010 1:37:12 PM****C:\ Documents and Settings\ dwolverton\ My Documents\ EAST\ Workspaces\ 10598483.wsp**